QUIZ

What character begins a comment in Python?

```
*
```

```
#
```

👏 Correct! A single-line comment starts with a # in Python.

```
%
```

What is the output of the following code?

```
cool_number = 12 + 30
cool_number * 5
print(cool_number)
```

```
cool_number
```

```
42
```

👏 Correct! Multiplying the variable by 5 does not change the variable.

```
210
```

How does one define a multi-line string in Python?

```
###
Like
This
###
```

```
***
Like
This
***
```

```
"""
Like
This
"""
```

👏 Correct!

What is the value of `modulo_variable` in the following expression?

```
modulo_variable = 14 % 4
```

56

2

👏 Correct! The remainder after dividing 14 by 4 is 2.

3.5

What happens when running the following code?

```
message = What a cool message!
print(message)
```

Python throws a SyntaxError because the string is not surrounded by quotes.

👏 Correct! `message` does not get defined because there are no quotes around the string.

"message" is printed.

"What a cool message!" gets printed to the console.

How do you combine two strings?

```
string1 + string2
```

👏 Correct!

```
string1.concatenate(string2)
```

```
string1.combine(string2)
```

Which of the following defined variables is a string?

```
cool_variable_1 = 23.18
cool_variable_2 = 9
cool_variable_3 = "Important Message!"
cool_variable_4 = 14 ** 3
```

```
cool_variable_1
```

```
cool_variable_3
```

👏 Correct! A string is how programming languages store text.

What is the value of `total_cost` that gets printed?

```
total_cost = 5
total_cost += 10
print(total_cost)
```

10

15

👏 Correct! `+=` adds the value afterwards to the variable and then updates the variable to be the sum.

5

What is the difference between a `float` and an `int`?

A `float` represents decimal quantities. An `int` represents whole numbers.

👏 Correct!

A `float` can only be used with whole numbers. An `int` can be any number with a decimal point.

A `float` contains text information. An `int` is any number.

Which of the following will produce a SyntaxError?

```
answer = "Is this an error"
```

```
answer = is_this_an_error
```

```
answer = "Is this an error'
```

👏 Correct! The quote marks are mismatched and will produce a `SyntaxError`

What is Python syntax for creating a variable and assigning the number `10` to it?

```
def variable_name = 10
```

```
variable_name == 10
```

```
variable_name = 10
```

👏 Correct! The equals sign creates a variable.

```
new variable_name = 10
```

Which function outputs text to the terminal?

```
print()
```

👏 Correct!

```
type()
```

```
output()
```

```
write()
```

What number is saved to `exponented_variable` in the following expression?

```
exponented_variable = 2 ** 4
```

16

👏 Correct! 2 to the 4th power is 16.

8